

ABSTRACT OF THE DISCLOSURE

1 An interleaved coding method can be used in a transmitter, in which the two or
2 more pseudonoise (PN) codes are interleaved to form a longer interleaved code. The
3 method can be used in a transmitter that includes a first code generator generating a first
4 code of n symbols, and a second code generator generating a second code of m symbols,
5 where n and m can be mutually prime, such as $m=n+1$. An interleave unit is coupled to
6 the first and second code generators, and interleaves the symbols of the first code with
7 the symbols of the second code to output an interleaved code. The interleaved code has
8 a period longer than either of the constituent PN codes, providing for much increased
9 noise tolerance over using the short codes alone, and can be detected at a much lower
10 hardware and time cost than if using a single PN code of equal length.